

Amendment to Claims

This listing of Claims will replace all prior versions and listings of claims in this Application.

Listing of Claims

Claim 1. (ORIGINAL) A method for correcting misregistration of scanned thin line character components, comprising:

- detecting a misregistered pixel;
- determining whether the misregistered pixel is part of a character;
- applying a three-dimensional color vector determinant to the misregistered pixel;

and

- reducing the chrominance component of the misregistered pixel to provide a corrected pixel.

Claim 2. (ORIGINAL) The method of claim 1 wherein said detecting include identifying a pixel as being at an edge of an image portion.

Claim 3. (CURRENTLY AMENDED) The method of claim 2 wherein said identifying includes identifying a pixel as being at an edge of an image portion using a gradient edge detector, including selecting an image kernel filter, having integer values GTE greater than or equal to -2 and LTE less than or equal to +2, including zero, setting a predetermined threshold, comparing the image filter kernel to the predetermined threshold, and classifying the pixel as a misregistered pixel iff if and only if the image filter kernel is greater than the predetermined threshold.

Claim 4. (ORIGINAL) The method of claim 1 wherein said determining includes checking the gradient and checking the luminance of a pixel.

Claim 5. (ORIGINAL) The method of claim 1 wherein said reducing includes reducing the chrominance component of the misregistered pixel to provide a corrected pixel with a fuzzy chrominance reduction function.

Claim 6. (ORIGINAL) The method of claim 1 which further includes locating an edge pixel position and classifying the edge position pixel as a text region.

Claim 7. (ORIGINAL) A method for correcting misregistration of scanned thin line character components, comprising:

detecting a misregistered pixel, including identifying a pixel as being at an edge of an image portion;

determining whether the misregistered pixel is part of a character, including checking the gradient and checking the luminance of a pixel;

applying a three-dimensional color vector determinant to the misregistered pixel; and

reducing the chrominance component of the misregistered pixel to provide a corrected pixel.

Claim 8. (CURRENTLY AMENDED) The method of claim 7 wherein said identifying

Page 7 Response to Office Action under 37 C.F.R. § 1.111 for Serial No. 09/761,441

includes identifying a pixel as being at an edge of an image portion using a gradient edge detector, including selecting an image kernel filter, having integer values GTE greater than or equal to -2 and LTE less than or equal to +2, including zero, setting a predetermined threshold, comparing the image filter kernel to the predetermined threshold, and classifying the pixel as a misregistered pixel FFF if and only if the image filter kernel is greater than the predetermined threshold.

Claim 9. (ORIGINAL) The method of claim 7 wherein said reducing includes reducing the chrominance component of the misregistered pixel to provide a corrected pixel with a fuzzy chrominance reduction function.

Claim 10. (ORIGINAL) The method of claim 7 which further includes locating an edge pixel position and classifying the edge position pixel as a text region.

Claim 11. (CURRENTLY AMENDED) A method for correcting misregistration of scanned thin line character components, comprising:

detecting a misregistered pixel, including identifying a pixel as being at an edge of an image portion, wherein said identifying includes identifying a pixel as being at an edge of an image portion using a gradient edge detector, including selecting an image kernel filter, having integer values GTE greater than or equal to -2 and LTE less than or equal to +2, including zero, setting a predetermined threshold, comparing the image filter kernel to the predetermined threshold, and classifying the pixel as a misregistered pixel FFF if and only if the image filter kernel is greater than the predetermined threshold;

determining whether the misregistered pixel is part of a character, including
checking the gradient and checking the luminance of a pixel;
applying a three-dimensional color vector determinant to the misregistered pixel;
and
reducing the chrominance component of the misregistered pixel to provide a
corrected pixel.

Claim 12. (ORIGINAL) The method of claim 11 wherein said reducing includes reducing the chrominance component of the misregistered pixel to provide a corrected pixel with a fuzzy chrominance reduction function.

Claim 13. (ORIGINAL) The method of claim 11 which further includes locating an edge pixel position and classifying the edge position pixel as a text region.